ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Darryl M Washington	**11/20/01**	**01-0887**		x0734	2079	SE

8. CCR Title: Install new microcode on STK 9840/9940 drives

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date:
Darryl Washington /s/		**CCR**	11/21/01

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 27).
	Update ECS Baseline Doc.	Routine

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
910-TDA-003-Rev72	NONE	

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
6A		None - Under 100K

22. Source Reference: ☐ **NCR (attach)** ☐ **Action Item** ☐ **Tech Ref.** ☐ **GSFC** ☒ **Other:**

23. Problem: (use additional Sheets if necessary)

STK 9840/9940 drives in the ECS Project have been displaying "spin-up errors" when AMASS/ACSLS attempts to put a volume in the drive. STK has stated that the most recent microcode provides code that will help to resolve this issue. The spin-up errors are particularly troublesome, becaues it causes the drives to go off-line, which in turn causes the volume to be marked "inactive". This will affect perfomance, as well as access to the archive. We have installed and tested the new microcode for STK 9840 (1.30.109) & 9940 (1.30.209) drives in the PVC and VATC without incident.

24. Proposed Solution: (use additional sheets if necessary)

Install and test the new microcode for STK 9840 (1.30.109) & 9940 (1.30.209) drives in all DAACs and the VATC.

25. Alternate Solution: (use additional sheets if necessary)

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☐ EDF ☐ PVC ☒ VATC ☒ EDC ☒ GSFC ☒ LaRC ☒ NSIDC ☐ SMC ☐ AK ☐ JPL ☐ EOC ☐ IDG Test Cell ☐ Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): **Byron Peters 11/21/01**	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): **Gary Gavigan 11/20/01**	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ADDITIONAL SHEET

CCR #: **Rev:** **Originator:** Darryl M. Washingoton

Telephone: x0734 **Office:** 2079

Title of Change: Install new microcode on STK 9840/9940 drives

We have been having problems with STK 9840 & 0040 drives going off-line because of a spin-up error. Below is an output from a spin-up error and how the system responds.

Oct 24 14:30:17 e0drg12 amass LIBIO2_2[2598]: E0699(7)<00000>:scsilib7049:
Spinup failed on drive 2 (jukebox 2) volume 618, errno 4 - Interrupted function call...reschedule request to new drive
Oct 24 14:30:17 e0drg12 amass LIBIO2_2[2598]: E0482(7)<00000>:scsilib7056:
Drive 2 (jukebox 2) unable to come ready. Sparing out volume
Oct 24 14:30:17 e0drg12 amass LIBIO2_2[2598]: E0695(7)<00000>:scsilib6506:
SCSI Sense information dump (in hex): Sense key: 0x2 ASC: 0x4 ASCQ: 0x070
00 02 00 00 00 00 12 00 00 00 00 04 00 00 00 00 00 00 00 00 00 00 00 08 00
Oct 24 14:30:17 e0drg12 amass LIBIO2_2[2598]: E0483(7)<00000>:libio996:
Drive 2 (jukebox 2) unable to come ready. Take drive out of service and reschedule request to new drive

We have installed the new microcode in the PVC and have noticed a considerale decrease in the number of spin-up error messages.